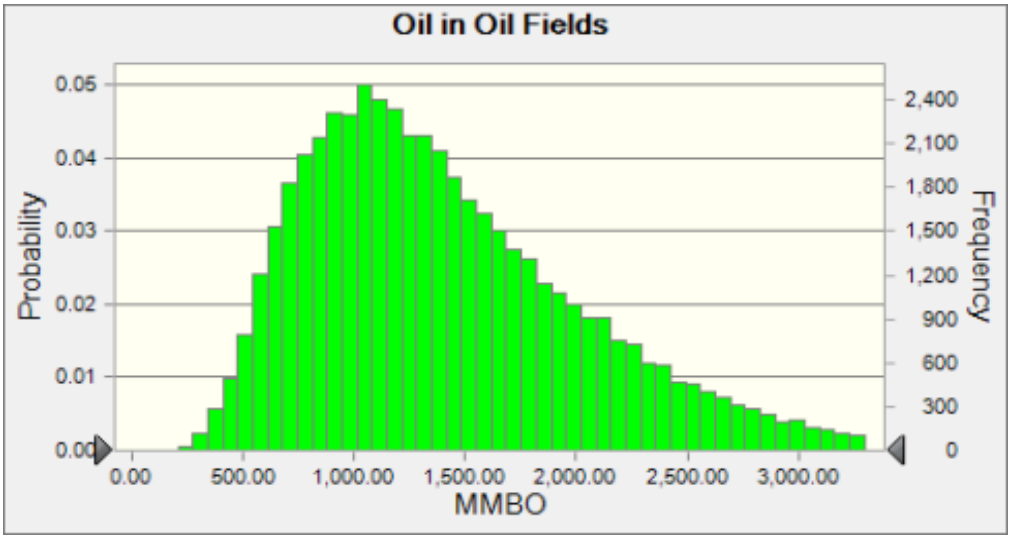
53050101
Reforma Trend Reservoirs
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 2.29 to 5,814.65
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 2.99



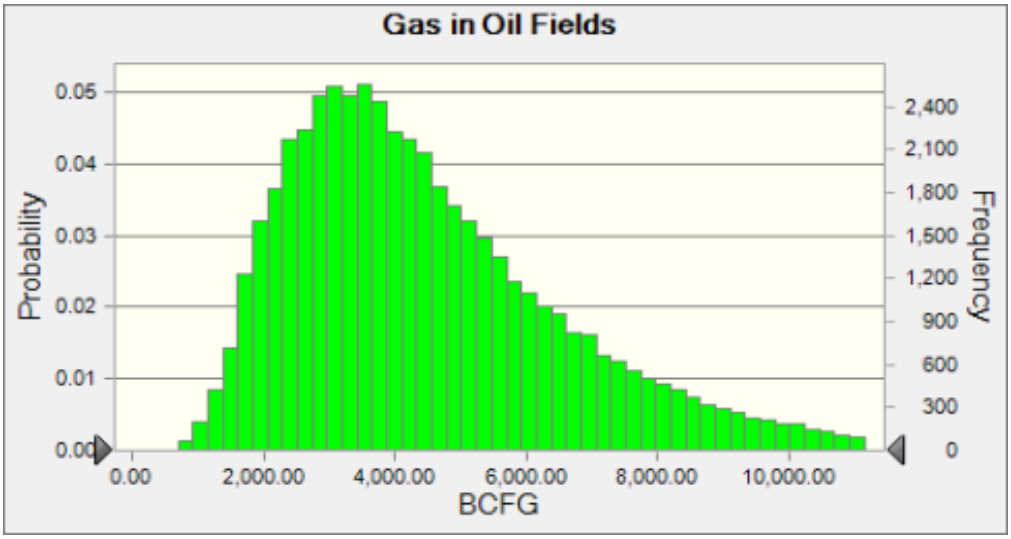
Statistics:	Forecast values
Trials	50,000
Mean	1,426.66
Median	1,296.80
Mode	---
Standard Deviation	668.27
Variance	446,582.62
Skewness	1.10
Kurtosis	4.66
Coefficient of Variability	0.4684
Minimum	2.29
Maximum	5,814.65
Range Width	5,812.36
Mean Standard Error	2.99

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	2.29
95%	587.41
90%	695.22
85%	783.39
80%	862.26
75%	936.52
70%	1,008.78
65%	1,076.56
60%	1,146.17
55%	1,218.47
50%	1,296.78
45%	1,375.67
40%	1,461.73
35%	1,559.08
30%	1,665.90
25%	1,787.12
20%	1,933.52
15%	2,108.06
10%	2,332.22
5%	2,698.80
0%	5,814.65

Forecast: Gas in Oil Fields

Summary:
Entire range is from 6.33 to 24,086.59
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 10.48



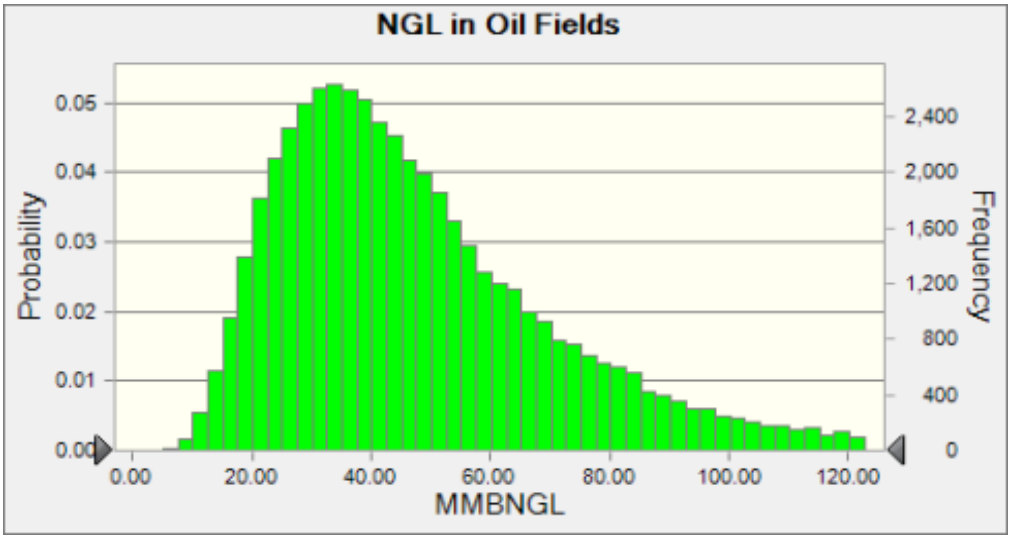
Statistics:	Forecast values
Trials	50,000
Mean	4,585.64
Median	4,077.73
Mode	---
Standard Deviation	2,342.29
Variance	5,486,338.59
Skewness	1.43
Kurtosis	6.25
Coefficient of Variability	0.5108
Minimum	6.33
Maximum	24,086.59
Range Width	24,080.26
Mean Standard Error	10.48

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	6.33
95%	1,803.15
90%	2,156.92
85%	2,432.62
80%	2,689.56
75%	2,920.46
70%	3,146.41
65%	3,374.06
60%	3,594.06
55%	3,825.68
50%	4,077.63
45%	4,338.62
40%	4,618.21
35%	4,938.56
30%	5,292.98
25%	5,702.51
20%	6,204.62
15%	6,829.05
10%	7,678.42
5%	9,082.32
0%	24,086.59

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.08 to 328.57
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.12



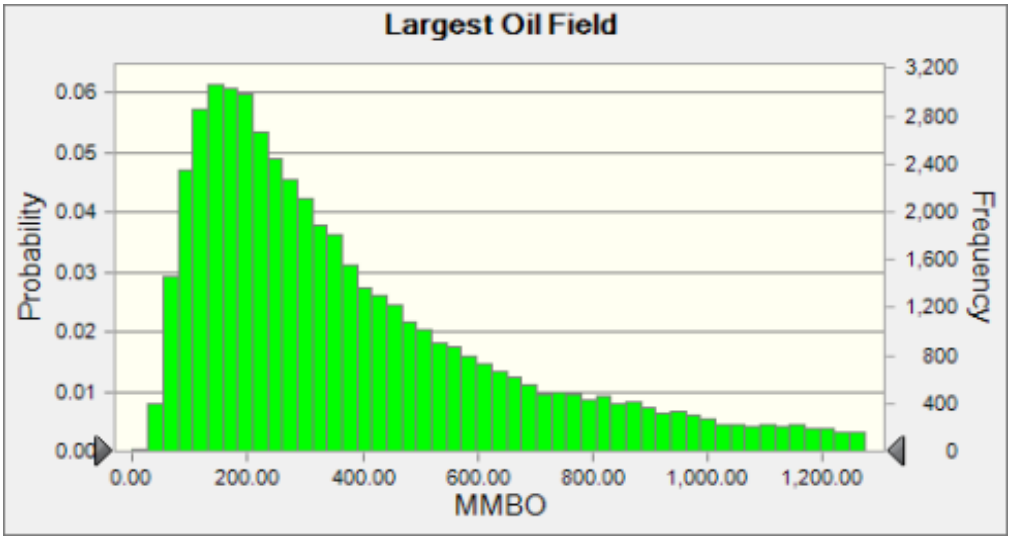
Statistics:	Forecast values
Trials	50,000
Mean	48.85
Median	42.91
Mode	---
Standard Deviation	26.37
Variance	695.19
Skewness	1.78
Kurtosis	9.02
Coefficient of Variability	0.5397
Minimum	0.08
Maximum	328.57
Range Width	328.49
Mean Standard Error	0.12

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.08
95%	18.81
90%	22.49
85%	25.45
80%	28.07
75%	30.55
70%	33.01
65%	35.34
60%	37.77
55%	40.26
50%	42.91
45%	45.73
40%	48.80
35%	52.11
30%	55.88
25%	60.51
20%	66.00
15%	72.99
10%	82.43
5%	98.75
0%	328.57

Forecast: Largest Oil Field

Summary:
Entire range is from 1.18 to 1,499.96
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.39



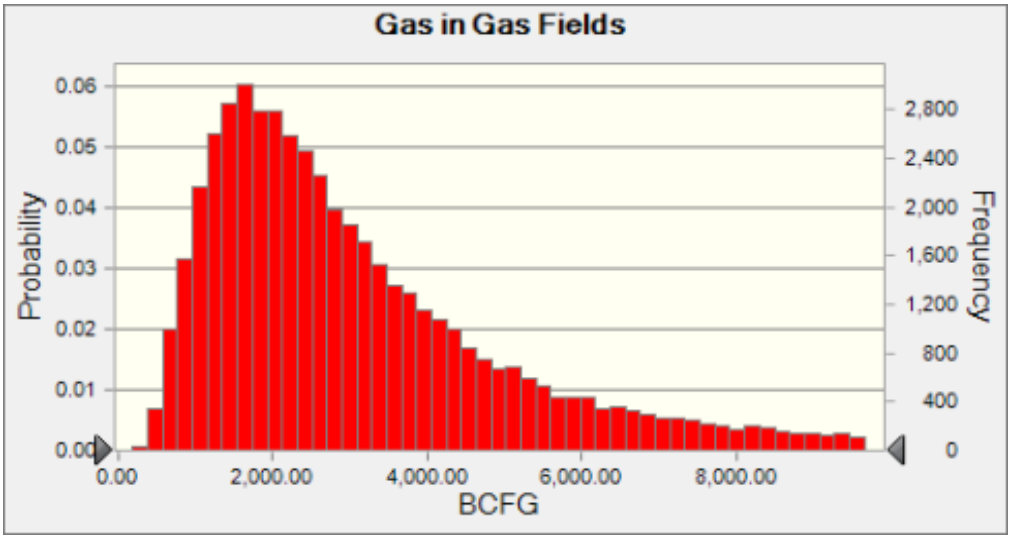
Statistics:	Forecast values
Trials	50,000
Mean	403.85
Median	303.48
Mode	---
Standard Deviation	309.87
Variance	96,021.26
Skewness	1.37
Kurtosis	4.40
Coefficient of Variability	0.7673
Minimum	1.18
Maximum	1,499.96
Range Width	1,498.78
Mean Standard Error	1.39

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	1.18
95%	86.39
90%	111.91
85%	134.40
80%	155.43
75%	176.83
70%	198.43
65%	221.42
60%	246.39
55%	273.56
50%	303.47
45%	337.32
40%	374.27
35%	419.73
30%	472.20
25%	536.61
20%	616.50
15%	724.62
10%	869.09
5%	1,093.64
0%	1,499.96

Forecast: Gas in Gas Fields

Summary:
Entire range is from 197.89 to 22,171.86
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 10.23



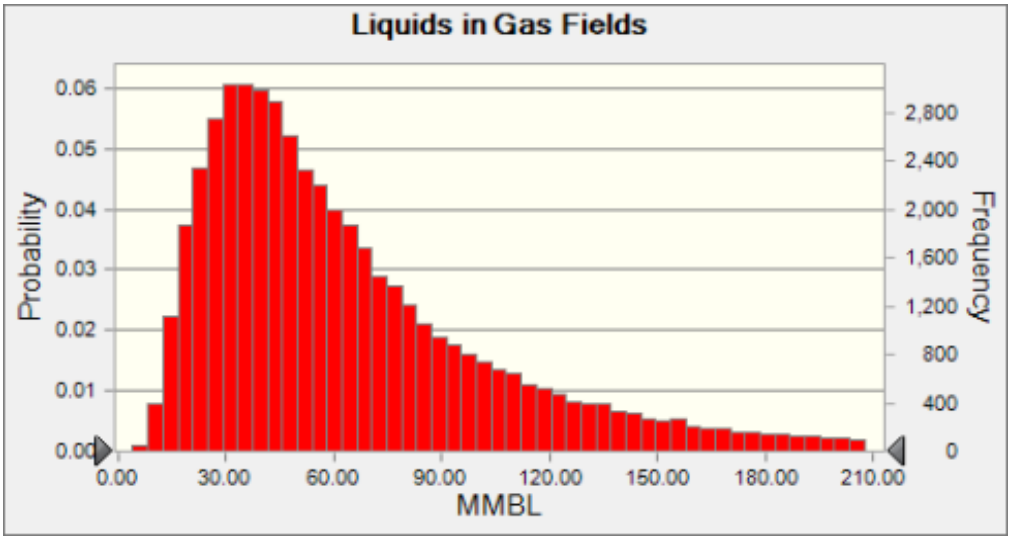
Statistics:	Forecast values
Trials	50,000
Mean	3,238.46
Median	2,574.26
Mode	---
Standard Deviation	2,288.59
Variance	5,237,664.55
Skewness	1.84
Kurtosis	7.50
Coefficient of Variability	0.7067
Minimum	197.89
Maximum	22,171.86
Range Width	21,973.98
Mean Standard Error	10.23

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	197.89
95%	919.30
90%	1,151.10
85%	1,340.89
80%	1,508.12
75%	1,670.67
70%	1,835.11
65%	2,006.81
60%	2,186.13
55%	2,373.28
50%	2,574.16
45%	2,799.50
40%	3,047.38
35%	3,335.07
30%	3,675.00
25%	4,072.87
20%	4,548.44
15%	5,232.68
10%	6,241.29
5%	8,043.06
0%	22,171.86

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 3.98 to 633.03
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.22



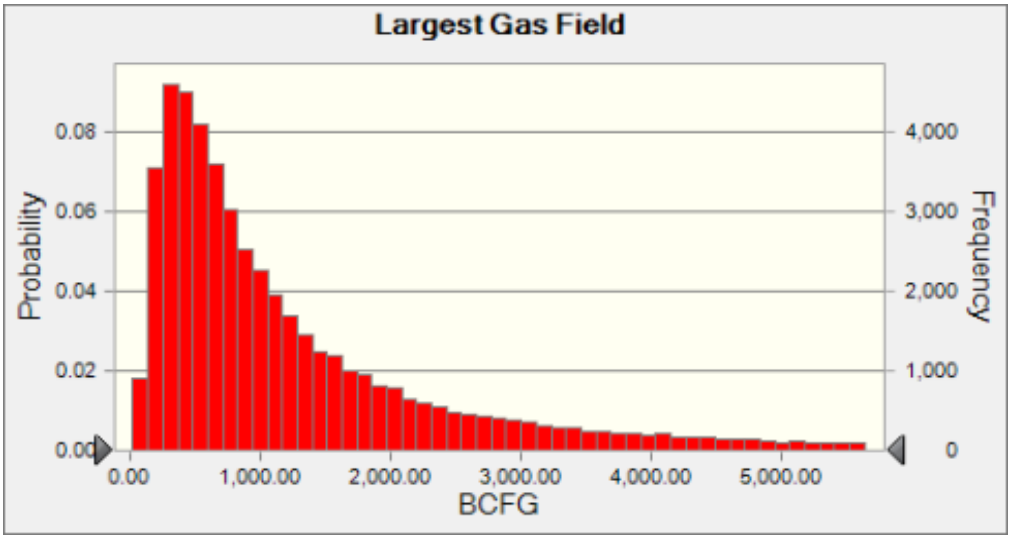
Statistics:	Forecast values
Trials	50,000
Mean	67.69
Median	53.21
Mode	---
Standard Deviation	49.96
Variance	2,496.21
Skewness	2.11
Kurtosis	9.61
Coefficient of Variability	0.7381
Minimum	3.98
Maximum	633.03
Range Width	629.05
Mean Standard Error	0.22

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	3.98
95%	18.80
90%	23.55
85%	27.41
80%	30.96
75%	34.37
70%	37.82
65%	41.33
60%	44.94
55%	48.80
50%	53.21
45%	57.87
40%	63.06
35%	68.92
30%	76.01
25%	84.38
20%	95.45
15%	109.62
10%	130.70
5%	168.08
0%	633.03

Forecast: Largest Gas Field

Summary:
Entire range is from 20.44 to 8,993.15
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 6.76



Statistics:	Forecast values
Trials	50,000
Mean	1,401.23
Median	851.08
Mode	---
Standard Deviation	1,511.77
Variance	2,285,458.38
Skewness	2.27
Kurtosis	8.69
Coefficient of Variability	1.08
Minimum	20.44
Maximum	8,993.15
Range Width	8,972.71
Mean Standard Error	6.76

Forecast: Largest Gas Field (continued)

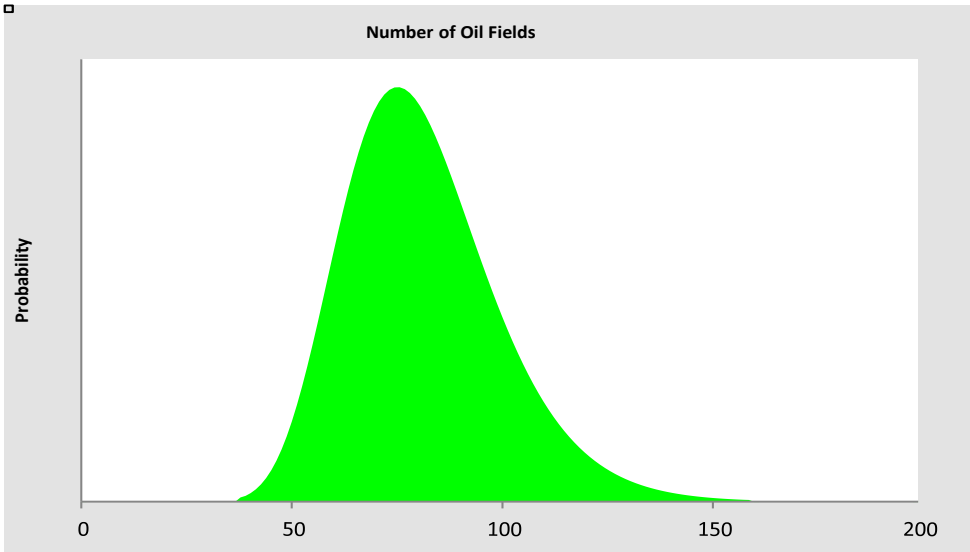
Percentiles:	BCFG
100%	20.44
95%	193.46
90%	263.19
85%	324.71
80%	386.74
75%	450.52
70%	517.40
65%	587.90
60%	663.64
55%	753.48
50%	851.05
45%	969.83
40%	1,099.89
35%	1,260.87
30%	1,466.87
25%	1,720.79
20%	2,048.85
15%	2,543.38
10%	3,297.19
5%	4,710.12
0%	8,993.15

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	81.05	82.05
Standard Deviation	18.58	18.58
Selected range is from -Infinity to 159.00		1.00 to 160.00



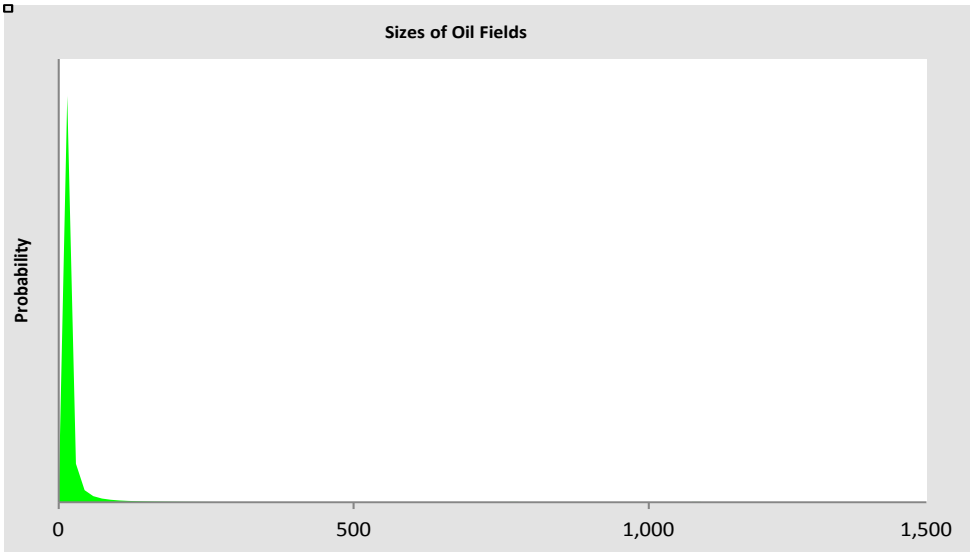
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	81.81	81.96
Median	79.82	79.98
Mode	---	---
Standard Deviation	18.29	18.38
Variance	334.65	337.77
Skewness	0.6252	0.6217
Kurtosis	3.50	3.48
Coefficient of Variability	0.2236	0.2242
Minimum	32.22	1.00
Maximum	159.86	160.00
Range Width	127.64	159.00
Mean Standard Error	0.08	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	32.22	1.00
95%	55.41	55.43
90%	60.04	60.10
85%	63.45	63.47
80%	66.26	66.29
75%	68.74	68.80
70%	71.10	71.14
65%	73.32	73.39
60%	75.44	75.58
55%	77.55	77.76
50%	79.82	79.98
45%	82.13	82.25
40%	84.49	84.63
35%	86.99	87.17
30%	89.65	89.92
25%	92.73	92.98
20%	96.29	96.52
15%	100.57	100.81
10%	106.11	106.47
5%	115.20	115.40
0%	159.86	160.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	19.84	20.84
Standard Deviation	195.80	195.8
Selected range is from -Infinity to 1,499.00		1.00 to 1,500.00



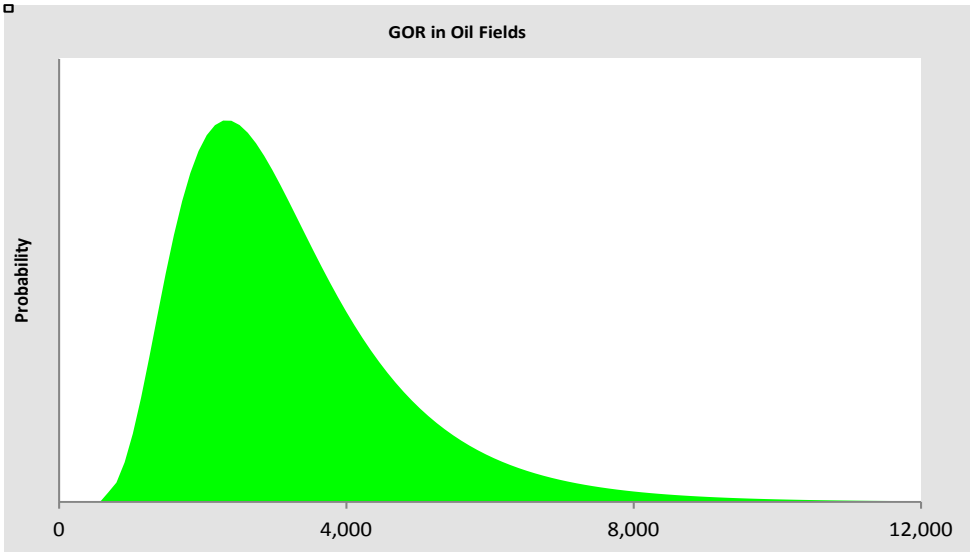
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	17.21	18.32
Median	3.02	2.99
Mode	---	---
Standard Deviation	63.32	64.86
Variance	4,009.40	4,206.39
Skewness	10.43	10.74
Kurtosis	150.67	158.13
Coefficient of Variability	3.68	3.54
Minimum	1.00	1.00
Maximum	1,497.89	1,500.00
Range Width	1,496.89	1,499.00
Mean Standard Error	0.28	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.00	1.00
95%	1.06	1.06
90%	1.13	1.13
85%	1.22	1.22
80%	1.33	1.33
75%	1.47	1.47
70%	1.65	1.65
65%	1.88	1.87
60%	2.16	2.16
55%	2.53	2.52
50%	3.02	2.99
45%	3.64	3.61
40%	4.45	4.43
35%	5.57	5.55
30%	7.11	7.12
25%	9.37	9.44
20%	13.04	13.06
15%	19.06	19.28
10%	31.32	31.80
5%	66.31	67.50
0%	1,497.89	1,500.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	100
Mean	3,124.43	3,224.43
Standard Deviation	1,547.03	1,547.03
Selected range is from -Infinity to 11,900.00		100.00 to 12,000.00



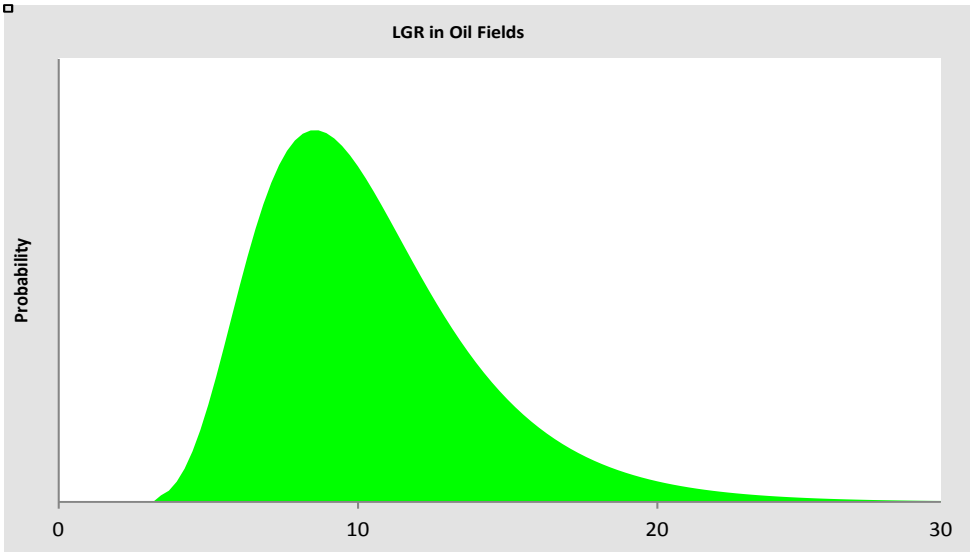
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	3,206.91	3,213.88
Median	2,894.07	2,898.36
Mode	---	---
Standard Deviation	1,515.26	1,510.35
Variance	2,296,011.34	2,281,149.81
Skewness	1.41	1.37
Kurtosis	5.97	5.79
Coefficient of Variability	0.4725	0.4699
Minimum	490.92	100.00
Maximum	11,958.81	12,000.00
Range Width	11,467.88	11,900.00
Mean Standard Error	6.78	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	490.92	100.00
95%	1,393.88	1,395.86
90%	1,633.88	1,636.11
85%	1,817.23	1,822.88
80%	1,976.34	1,987.38
75%	2,124.57	2,140.95
70%	2,280.49	2,289.47
65%	2,429.65	2,436.72
60%	2,578.69	2,585.57
55%	2,732.69	2,738.59
50%	2,894.05	2,898.36
45%	3,058.62	3,067.77
40%	3,243.14	3,250.38
35%	3,440.14	3,450.89
30%	3,666.35	3,675.95
25%	3,915.75	3,935.69
20%	4,225.48	4,246.97
15%	4,616.73	4,641.39
10%	5,187.47	5,190.22
5%	6,135.04	6,122.80
0%	11,958.81	12,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	9.67	10.67
Standard Deviation	3.80	3.8
Selected range is from -Infinity to 29.00		1.00 to 30.00



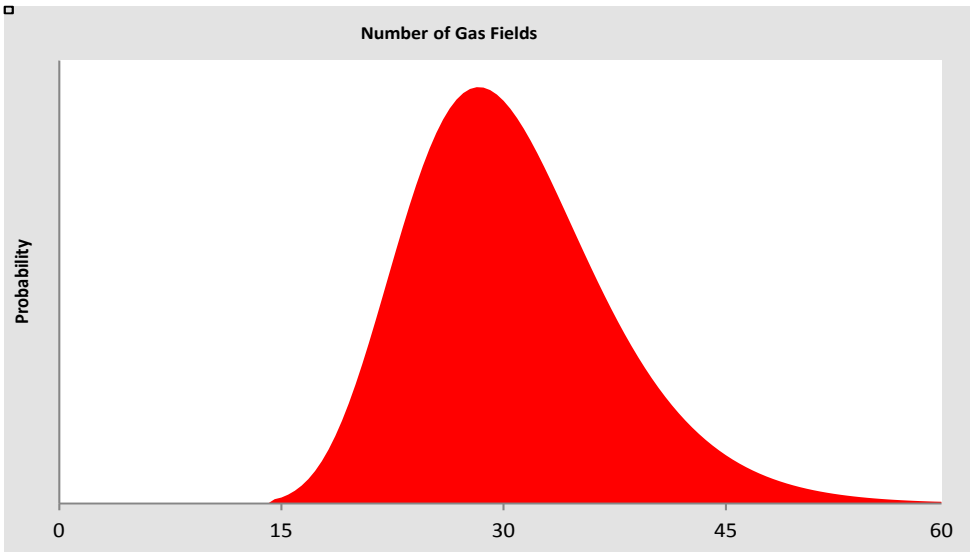
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	10.66	10.65
Median	10.01	10.00
Mode	---	---
Standard Deviation	3.75	3.73
Variance	14.07	13.90
Skewness	1.11	1.08
Kurtosis	4.75	4.69
Coefficient of Variability	0.3519	0.3502
Minimum	2.74	1.00
Maximum	29.85	30.00
Range Width	27.11	29.00
Mean Standard Error	0.02	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	2.74	1.00
95%	5.84	5.83
90%	6.55	6.54
85%	7.08	7.08
80%	7.53	7.54
75%	7.97	7.97
70%	8.37	8.38
65%	8.77	8.78
60%	9.18	9.17
55%	9.57	9.58
50%	10.01	10.00
45%	10.44	10.43
40%	10.90	10.90
35%	11.41	11.41
30%	11.96	11.97
25%	12.61	12.61
20%	13.36	13.36
15%	14.32	14.31
10%	15.63	15.59
5%	17.79	17.72
0%	29.85	30.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	29.78	30.78
Standard Deviation	6.94	6.94
Selected range is from -Infinity to 59.00		1.00 to 60.00



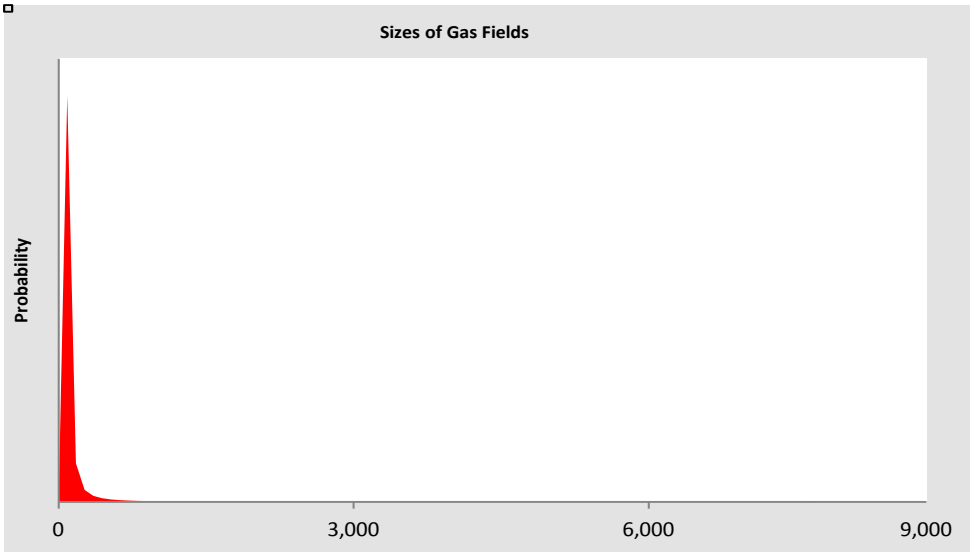
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	30.80	30.74
Median	30.03	29.99
Mode	---	---
Standard Deviation	6.89	6.86
Variance	47.53	47.03
Skewness	0.6496	0.6320
Kurtosis	3.51	3.50
Coefficient of Variability	0.2238	0.2231
Minimum	12.59	1.00
Maximum	59.94	60.00
Range Width	47.35	59.00
Mean Standard Error	0.03	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	12.59	1.00
95%	20.90	20.87
90%	22.64	22.60
85%	23.87	23.85
80%	24.95	24.90
75%	25.84	25.83
70%	26.74	26.70
65%	27.58	27.54
60%	28.40	28.35
55%	29.21	29.17
50%	30.03	29.99
45%	30.86	30.84
40%	31.75	31.73
35%	32.69	32.67
30%	33.72	33.70
25%	34.87	34.84
20%	36.24	36.17
15%	37.88	37.77
10%	40.06	39.89
5%	43.47	43.24
0%	59.94	60.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	6
Mean	119.04	125.04
Standard Deviation	1,174.77	1,174.77
Selected range is from -Infinity to 8,994.00		6.00 to 9,000.00



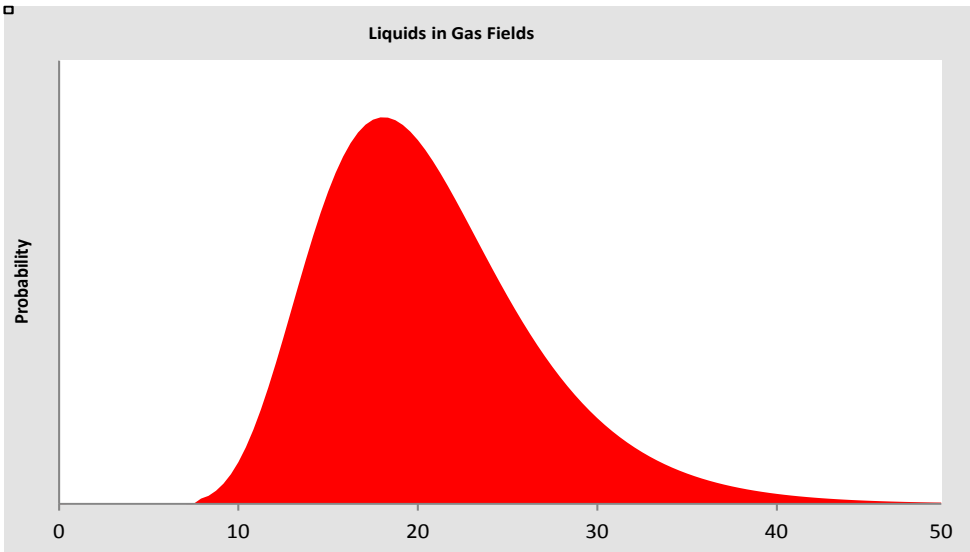
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	104.64	109.94
Median	18.11	17.97
Mode	---	---
Standard Deviation	391.39	389.14
Variance	153,186.89	151,430.14
Skewness	10.93	10.74
Kurtosis	163.20	158.13
Coefficient of Variability	3.74	3.54
Minimum	6.00	6.00
Maximum	8,888.61	9,000.00
Range Width	8,882.61	8,994.00
Mean Standard Error	1.75	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	6.00	6.00
95%	6.35	6.35
90%	6.77	6.77
85%	7.32	7.30
80%	8.01	7.97
75%	8.87	8.82
70%	9.96	9.89
65%	11.36	11.25
60%	13.06	12.96
55%	15.27	15.15
50%	18.11	17.97
45%	21.90	21.66
40%	26.81	26.58
35%	33.70	33.29
30%	43.10	42.74
25%	56.89	56.64
20%	79.11	78.36
15%	115.82	115.66
10%	191.90	190.80
5%	407.28	404.98
0%	8,888.61	9,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	19.91	20.91
Standard Deviation	6.25	6.25
Selected range is from -Infinity to 49.00		1.00 to 50.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	20.88	20.88
Median	20.00	19.99
Mode	---	---
Standard Deviation	6.17	6.16
Variance	38.08	37.98
Skewness	0.8779	0.8607
Kurtosis	4.07	4.03
Coefficient of Variability	0.2955	0.2951
Minimum	5.73	1.00
Maximum	49.84	50.00
Range Width	44.11	49.00
Mean Standard Error	0.03	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	5.73	1.00
95%	12.50	12.47
90%	13.87	13.82
85%	14.83	14.82
80%	15.66	15.68
75%	16.44	16.45
70%	17.17	17.17
65%	17.86	17.88
60%	18.55	18.57
55%	19.26	19.28
50%	20.00	19.99
45%	20.74	20.74
40%	21.52	21.52
35%	22.36	22.37
30%	23.29	23.30
25%	24.34	24.35
20%	25.57	25.57
15%	27.06	27.08
10%	29.08	29.10
5%	32.38	32.37
0%	49.84	50.00

End of Assumptions

Simulation started on 9/13/2011 at 2:53 PM
Simulation stopped on 9/13/2011 at 3:03 PM